

Sequence Listing

<110> Keio University

<120> PROTEIN FORMING COMPLEX WITH c-Fos PROTEIN, NUCLEIC ACID ENCODING THE SAME AND METHOD OF USING THE SAME

<130> P393-OP1718

<150> JP 2002-360046

<151> 2002-12-11

<160> 191

<170> PatentIn version 3.0

<210> 1

<211> 184

<212> PRT

<213> Mus musculus

<400> 1

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Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg
				20				25					30		
His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu
				35				40				45			
Ala	Asp	Arg	Leu	Lys	His	Leu	Thr	Ser	Arg	Leu	Gly	His	Leu	Thr	Asp
				50				55			60				
Arg	Ser	Trp	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu
				65				70			75		80		
Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Gln	Arg	Tyr
				85				90			95				
Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr
				100				105			110				
Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg
				115				120			125				
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Met
				130				135			140				
His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Gln	Arg	His	Leu
				145				150			155		160		
Ala	Asp	Arg	Gln	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp

165	170	175
Lys Leu Arg His Gln Leu Gln Leu		
180		

<210> 2
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 <213> Mus musculus

<400> 2
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 35 40 45
 Ala Asp Arg Gln Arg His Asp
 50 55

<210> 3
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 <212> PRT
 <213> Mus musculus

<400> 3
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 His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
 35 40 45
 Ala Asp Arg Gln Arg His Asp
 50 55

<210> 4
 <211> 38
 <212> PRT
 <213> Mus musculus

<400> 4
 Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp
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25

30

Ser His Pro Thr Gln Thr
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<210> 5

<211> 45

<212> PRT

<213> Mus musculus

<400> 5

Asp Arg Leu Gly His Leu Thr Asp Arg Leu Lys His Leu Thr Asp Arg

1 5 10 15

Leu Gly His Leu Thr Asp Arg Leu Val His Leu Thr Asp Arg Leu Met
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 35 40 45

<210> 6

<211> 55

<212> PRT

<213> Mus musculus

<400> 6

Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
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 20 25 30His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
 35 40 45Ala Asp Arg Arg Arg His Asp
 50 55

<210> 7

<211> 55

<212> PRT

<213> Mus musculus

<400> 7

Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
 1 5 10 15Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met
 20 25 30

His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Pro Arg His Leu

35 40

45

Ala Asp Arg Gln Arg His Asp
 50 55

<210> 8

<211> 55

<212> PRT

<213> Mus musculus

<400> 8

Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
 1 5 10 15

Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met
 20 25 30

His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Gly His Leu
 35 40 45

Ala Asp Arg Gln Arg His Asp
 50 55

<210> 9

<211> 45

<212> PRT

<213> Mus musculus

<400> 9

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Leu Gly His Leu Thr Asp Arg Leu Ile His Leu Thr Asp Arg Leu Met
 20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 10

<211> 38

<212> PRT

<213> Mus musculus

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Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His
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Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met His Leu Thr
 20 25 30

Asp Arg Leu Arg Gln Arg

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 <212> PRT
 <213> Mus musculus

<400> 11
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 20 25 30

<210> 12
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 <213> Mus musculus

<400> 12
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 Arg His Leu Ala Asp Gln
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<210> 13
 <211> 45
 <212> PRT
 <213> Mus musculus

<400> 13
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 20 25 30
 His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

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 <213> Mus musculus

<400> 14

Asp	Lys	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg
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Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Met
					20				25						30
Arg	Leu	Thr	Asp	Arg	Leu	Met	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu
					35				40						45
Ala	Asp	Arg	Gln	Arg	His	Asp									
					50				55						

<210> 15

<211> 281

<212> PRT

<213> Mus musculus

<400> 15

Met	Ala	Thr	Asn	Phe	Leu	Ala	His	Glu	Lys	Ile	Trp	Phe	Asp	Lys	Phe
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Lys	Tyr	Asp	Asp	Ala	Glu	Arg	Arg	Phe	Tyr	Glu	Gln	Met	Asn	Gly	Pro
					20					25					30
Val	Thr	Ser	Gly	Ser	Arg	Gln	Glu	Asn	Gly	Ala	Ser	Val	Ile	Leu	Arg
					35					40					45
Asp	Ile	Ala	Arg	Ala	Arg	Glu	Asn	Ile	Gln	Lys	Ser	Leu	Ala	Gly	Ser
					50				55						60
Ser	Gly	Pro	Gly	Ala	Ser	Ser	Gly	Pro	Gly	Gly	Asp	His	Ser	Glu	Leu
					65				70						80
Ile	Val	Arg	Ile	Thr	Ser	Leu	Glu	Val	Glu	Asn	Gln	Asn	Leu	Arg	Gly
					85				90						95
Val	Val	Gln	Asp	Leu	Gln	Gln	Ala	Ile	Ser	Lys	Leu	Glu	Ala	Arg	Leu
					100				105						110
Ser	Ser	Leu	Glu	Lys	Ser	Ser	Pro	Thr	Pro	Arg	Ala	Thr	Ala	Pro	Gln
					115				120						125
Thr	Gln	His	Val	Ser	Pro	Met	Arg	Gln	Val	Glu	Pro	Pro	Thr	Lys	Lys
					130				135						140
Gly	Ala	Thr	Pro	Ala	Glu	Asp	Asp	Glu	Asp	Lys	Asp	Ile	Asp	Leu	Phe
					145				150						160
Gly	Ser	Asp	Glu	Glu	Glu	Asp	Lys	Glu	Ala	Ala	Arg	Leu	Arg	Glu	
					165				170						175
Glu	Arg	Leu	Arg	Gln	Tyr	Ala	Glu	Lys	Lys	Ala	Lys	Lys	Pro	Thr	Leu
					180				185						190
Val	Ala	Lys	Ser	Ser	Ile	Leu	Leu	Asp	Val	Lys	Pro	Trp	Asp	Asp	Glu
					195				200						205

Thr Asp Met Ala Gln Leu Glu Thr Cys Val Arg Ser Ile Gln Leu Asp
 210 215 220
 Gly Leu Val Trp Gly Ala Ser Lys Leu Val Pro Val Gly Tyr Gly Ile
 225 230 235 240
 Arg Lys Leu Gln Ile Gln Cys Val Val Glu Asp Asp Lys Val Gly Thr
 245 250 255
 Asp Leu Leu Glu Glu Glu Ile Thr Lys Phe Glu Glu His Val Gln Ser
 260 265 270
 Val Asp Ile Ala Ala Phe Asp Lys Ile
 275 280

<210> 16
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 <213> Mus musculus

<400> 16
 His Ser Glu Leu Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn Gln
 1 5 10 15
 Asn Leu Arg Gly Val Val Gln Asp Leu Gln Gln Ala Ile Ser Lys Leu
 20 25 30
 Glu Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala
 35 40 45
 Thr Ala Pro Gln Thr Arg
 50

<210> 17
 <211> 53
 <212> PRT
 <213> Mus musculus

<400> 17
 Arg Glu Leu Ile Val Arg Ile Thr Ser Leu Glu Val Glu Asn Gln Asn
 1 5 10 15
 Leu Arg Gly Val Val Gln Asp Leu Gln Gln Val Ile Ser Lys Leu Glu
 20 25 30
 Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala Thr
 35 40 45
 Ala Pro Gln Thr Arg
 50

<210> 18
 <211> 54

<212> PRT

<213> Mus musculus

<400> 18

His Ser Glu Leu Ile Val Arg Ile Asn Ser	Leu Glu Val Glu Asn Gln		
1	5	10	15
Asn Leu Arg Gly Val Val Gln Asp	Leu Gln Gln Ala Ile Ser Lys Leu		
20	25	30	
Glu Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala			
35	40	45	
Thr Ala Pro Arg Thr Arg			
50			

<210> 19

<211> 54

<212> PRT

<213> Mus musculus

<400> 19

His Ser Glu Leu Ile Val Arg Ile Thr Ser	Leu Glu Val Glu Asn Gln		
1	5	10	15
Asn Leu Arg Gly Val Val Gln Asp	Leu Gln Gln Ala Ile Ser Arg Leu		
20	25	30	
Glu Ala Arg Leu Ser Ser Leu Glu Lys Ser Ser Pro Thr Pro Arg Ala			
35	40	45	
Thr Ala Pro Gln Thr Arg			
50			

<210> 20

<211> 268

<212> PRT

<213> Mus musculus

<400> 20

Met Leu Ser Ala Phe Pro Ala Gln Leu Ala Gln Gln Ser Ser Phe Gly			
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Val Cys Val Leu Gly Cys Thr Glu Met Val His Gln Glu Asn Cys Ser			
20	25	30	
Tyr Gln Ala Gln Lys Asn Glu Arg Glu Ser Ile Arg Gln Lys Leu Ala			
35	40	45	
Leu Gly Ser Phe Phe Asp Asp Gly Pro Gly Ile Tyr Thr Ser Cys Ser			
50	55	60	
Lys Ser Gly Lys Pro Ser Leu Ser Ala Arg Leu Gln Ser Gly Met Asn			

65	70	75	80
Leu Gln Ile Cys Phe Val Asn Asp Ser Gly Ser Asp Lys Asp Ser Asp			
85	90	95	
Ala Asp Asp Ser Lys Thr Glu Thr Ser Leu Asp Thr Pro Leu Ser Pro			
100	105	110	
Met Ser Lys Gln Ser Ser Ser Tyr Ser Asp Arg Asp Thr Thr Glu Glu			
115	120	125	
Glu Ser Glu Ser Leu Asp Asp Met Asp Phe Leu Thr Arg Gln Lys Lys			
130	135	140	
Leu Gln Ala Glu Ala Lys Met Ala Leu Ala Met Ala Lys Pro Met Ala			
145	150	155	160
Lys Met Gln Val Glu Val Glu Arg Gln Asn Arg Lys Lys Ser Pro Val			
165	170	175	
Ala Asp Leu Leu Pro His Met Pro His Ile Ser Glu Cys Leu Met Lys			
180	185	190	
Arg Ser Leu Lys Pro Thr Asp Leu Arg Asp Met Thr Ile Gly Gln Leu			
195	200	205	
Gln Val Ile Val Asn Asp Leu His Ser Gln Ile Glu Ser Leu Asn Glu			
210	215	220	
Glu Leu Val Gln Leu Leu Ile Arg Asp Glu Leu His Thr Glu Gln			
225	230	235	240
Asp Ala Met Leu Val Asp Ile Glu Asp Leu Thr Arg His Ala Glu Ser			
245	250	255	
Gln Gln Lys His Met Ala Glu Lys Met Pro Ala Lys			
260	265		

<210> 21
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 <213> Mus musculus

<400> 21
 Pro His Thr Pro His Ile Ser Glu Cys Leu Met Lys Arg Ser Leu Lys
 1 5 10 15
 Pro Thr Asp Leu Arg Asp Met Thr Ile Gly Gln Leu Gln Val Ile Val
 20 25 30
 Asn Asp Leu His Ser Gln Ile Glu Ser Leu Asn Glu Glu Leu Val Gln
 35 40 45
 Leu Leu Leu Ile Arg Asp Glu Leu His Thr Glu Gln Asp Ala Met Leu
 50 55 60
 Val Asp Ile Glu Asp Leu Thr Arg His Ala Glu Arg Glu Gln
 65 70 75

<210> 22
 <211> 78
 <212> PRT
 <213> Mus musculus

<400> 22
 Pro His Met Pro His Ile Ser Glu Cys Leu Met Lys Arg Ser Leu Lys
 1 5 10 15
 Pro Thr Asp Leu Arg Asp Met Thr Ile Gly Gln Leu Gln Val Ile Val
 20 25 30
 Asn Asp Leu His Ser Gln Ile Glu Arg Leu Asn Glu Glu Leu Val Gln
 35 40 45
 Leu Leu Leu Ile Arg Asp Glu Leu His Thr Glu Gln Asp Ala Met Leu
 50 55 60
 Val Asp Ile Glu Asp Leu Thr Arg His Ala Glu Lys Glu Gln
 65 70 75

<210> 23
 <211> 552
 <212> DNA
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<400> 23
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 ctagcagaca gattgaggca tctagcagac agactgaaac atcttaccag cagattgggg 180
 catctaacag acagatcatg gcatctaaca gacagattgg ggcatctaac agacagattg 240
 aggcatctaa cagacagatt gggcatcta acagacagac agaggtatct agcagacaga 300
 ttgaggcatc taacagacag attggggcat ctaacagaca gactgaggca tctaacagac 360
 agattgggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca 420
 gacagactga tgcataaac agacagactg aggcatctag cagacagaca gaggcatcta 480
 gcagacagac agaggcatct agcagacaga ctgaggcatc tagcagacaa attgaggcat 540
 cagctgcagc tg 552

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 <212> DNA
 <213> Mus musculus

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ctaacagaca gactgaggca tctagcagac agacagaggc acgac	165
<210> 25	
<211> 165	
<212> DNA	
<213> Mus musculus	
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acagacagat tggggcatct aacagacaga ctgatgcatt taacagacag actgtatgcatt	120
ctaacagaca gactgaggca tctagcagac agacagaggc acgac	165
<210> 26	
<211> 165	
<212> DNA	
<213> Mus musculus	
<400> 26	
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ctaacagaca gactgaggca tctagcagac aggcagaggc acgac	165
<210> 27	
<211> 165	
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acagacagat tggggcatgt aacagacaga ctgatgcatt taacagacag actgtatgcatt	120
ctaacagaca gactgaggca tttagcagac agacagaggc acgac	165
<210> 28	
<211> 114	
<212> DNA	
<213> Mus musculus	
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<212> DNA

<213> Mus musculus

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acagacagac tggccatct aacagacaga ctgatgcac taacagacag actgaggcat	120
cttagcgtta gacag	135

<210> 30

<211> 165

<212> DNA

<213> Mus musculus

<400> 30

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acagacagat tggggcatct aacagacaga ctgatgcac taacagacag actgatgcat	120
ctaacagaca gactgaggca tctagcagac agacggaggc acgac	165

<210> 31

<211> 165

<212> DNA

<213> Mus musculus

<400> 31

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acagacagat tggggcatct aacagacaga ctgatgcac taacagacag actgatgcac	120
ctaacagaca gaccgaggca tctagcagac agacagaggc acgac	165

<210> 32

<211> 165

<212> DNA

<213> Mus musculus

<400> 32

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acagacagat tggggcatct aacagacaga ctgatgcac taacagacag actgatgcat	120
ctaacagaca gactggggca tctagcagac agacagaggc acgac	165

<210> 33

<211> 135

<212> DNA

<213> Mus musculus

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 ctagcagtca gacag 135

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 <212> DNA
 <213> Mus musculus

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<210> 36
 <211> 114
 <212> DNA
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<210> 37
 <211> 135
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 ctagcagtca gacag 135

<210> 38

<211> 165

<212> DNA

<213> Mus musculus

<400> 38

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ctaacagaca gactgaggca tctagcagac agacagaggc acgac	165

<210> 39

<211> 843

<212> DNA

<213> Mus musculus

<400> 39

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aatggtgcca gcgtgatcct ccgagacatt gcaagagcca gagagaacat ccagaaatcc	180
ttggctggaa gtcaggccc tggagcctcc agtggacctg gtggagacca cagttagctc	240
attgtgagga ttaccagtct ggaagtggag aaccagaacc ttcgaggcggt ggtgcaagat	300
ttgcagcagg ccatttccaa gttggaggcc cggctgagct ctctagagaa gagttcacct	360
actccccgag ccacggccccc acagacccaa catgtctctc ctatgcgtca agtggagccc	420
ccaaaccaaga aaggagccac accagcagag gacgatgagg acaaggacat tgacctgttc	480
ggcagtgacg aggaggaaga agataaggag gctgcccgcac tacgggagga gaggctacgc	540
cagtacgcag agaagaaggc caagaagccc acactggtgg ccaaattcctc catccttttgc	600
gatgttaaac cttgggatga tgagactgac atggcccagc tagagacttg tgtgcgttcc	660
atccaattgg acgggctggg ttggggggcc tccaaagcttg tgcctgttgg ctatggcatc	720
cggaagctgc agatccagtg tgtgtggag gatgacaaag tggcaccga cttgctcgag	780
gaggagatca ccaaatttga ggagcatgtg cagagtgtcg acatgcgac tttcgacaag	840
atc	843

<210> 40

<211> 162

<212> DNA

<213> Mus musculus

<400> 40

cacagtgagc tcattgtgag gattaccagt ctggaagtgg agaatcagaa ctttcgaggc	60
gtggcgtcaag atttgcagca ggccatttcc aagttggagg cccggctgag ctctcttagag	120
aagagttcac ctactccccg agccacggcc ccacagaccc ga	162

<210> 41

<211> 159

<212> DNA

<213> Mus musculus

<400> 41

cgtgagctca ttgtgaggat taccagtctg gaagtggaga atcagaacct tcgaggcgtg	60
gtgcaagatt tgcatcgaggat catttccaag ttggaggccc ggctgagctc tctagagaag	120
agttcaccta ctccccgagc cacggccca cagacccga	159

<210> 42

<211> 162

<212> DNA

<213> Mus musculus

<400> 42

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gttgtcaag atttgcagca ggccatttcc aagttggagg cccggctgag ctcttagag	120
aagagttcac ctactccccg agccacggcc ccacggaccc ga	162

<210> 43

<211> 162

<212> DNA

<213> Mus musculus

<400> 43

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gttgtcaag atttgcagca ggccatttcc aggttggagg cccggctgag ctctctagag	120
aagagttcac ctactccccg agccacggcc ccacagaccc ga	162

<210> 44

<211> 804

<212> DNA

<213> Mus musculus

<400> 44

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gagtctatca gacagaagg ggcactcgga agcttcttg acgtggccc aggaatctat	180
accagctgca gcaaaaagtgg gaagccaagc ctttctgcaa gactacagag cgggatgaac	240
ctccagatat gctttgtcaa tgacagcgcc agtgacaagg acagcgatgc agatgacagt	300
aagacggaaa ccagcttggc cacgcccttgc tccccatga gcaaggcagag ttcttcata	360
tcggatagag acacaactga ggaggagtct gaatccctgg atgacatggc cttccatcaca	420
aggcaaaaaga agctacaagc tgaagccaaa atggctctgg ccatggccaa accaatggcc	480
aaaatgcaag tagaagtggc aagacagaac aggaaaaagt ctcccgatcg tgcgttctc	540

ccacacatgc ctcacataaag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg	600
agagacatga ctatcggca gctacaagtg atcgtcaatg acctccactc ccagattgaa	660
agtttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa	720
gatgccatgc tggggacat tgaagacttg actagacacg ctgagagtca gcagaagcac	780
atggctgaga aaatccccgc gaag	804
<210> 45	
<211> 234	
<212> DNA	
<213> Mus musculus	
<400> 45	
ccacacacgc ctcacataaag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg	60
agagacatga ctatcggca gctacaagtg atcgtcaatg acctccactc ccagattgaa	120
agtttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa	180
gatgccatgc tggggacat tgaagacttg actagacacg ctgagaggga gcag	234
<210> 46	
<211> 234	
<212> DNA	
<213> Mus musculus	
<400> 46	
ccacacatgc ctcacataaag cgaatgtttg atgaaaagaa gcttaaagcc caccgacctg	60
agagacatga ctatcggca gctacaagtg atcgtcaatg acctccactc ccagattgag	120
cgtttgaatg aagagtttgt ccagctgctc cttattcgag atgagctgca cacagaacaa	180
gatgccatgc tggggacat tgaagacttg actagacacg ctgagaagga gcag	234
<210> 47	
<211> 191	
<212> PRT	
<213> Mus musculus	
<400> 47	
Met Pro Leu Arg His Leu Ala Asp Arg Leu Gly His Leu Ala Asp Arg	
1 5 10 15	
Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg	
20 25 30	
His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Leu Lys His Leu	
35 40 45	
Ala Asp Arg Leu Lys His Leu Thr Asp Arg Leu Gly His Leu Thr Asp	
50 55 60	
Arg Ser Trp His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu	

65	70	75	80
Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Gln Arg Tyr			
	85	90	95
Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr			
	100	105	110
Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg			
	115	120	125
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met			
	130	135	140
His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu			
	145	150	155
Ala Asp Arg Gln Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp			
	165	170	175
Arg Leu Arg His Leu Ala Asp Lys Leu Arg His Gln Leu Gln Leu			
	180	185	190

<210> 48
<211> 71
<212> PRT
<213> Mus musculus

<400> 48
Ile Glu Ala Ser Asn Arg Gln Ile Gly Ala Ser Asn Arg Gln Thr Glu
1 5 10 15
Ala Ser Asn Arg Gln Ile Gly His Leu Thr Asp Arg Leu Arg His Leu
20 25 30
Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp
35 40 45
Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu Ala Asp Arg Gln
50 55 60
Arg His Leu Ala Asp Arg Leu
65 70

<210> 49
<211> 55
<212> PRT
<213> Mus musculus

<400> 49
Asp Lys Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg
1 5 10 15
Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met
20 25 30

His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
 35 40 45

Ala Asp Arg Gln Arg His Asp
 50 55

<210> 50

<211> 45

<212> PRT

<213> Mus musculus

<400> 50

Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met
 20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 51

<211> 45

<212> PRT

<213> Mus musculus

<400> 51

Asp Arg Leu Gly Arg Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met
 20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 52

<211> 45

<212> PRT

<213> Mus musculus

<400> 52

Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg Tyr Leu Thr Asp Arg
 1 5 10 15
 Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met
 20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln
 35 40 45

<210> 53

<211> 45

<212> PRT

<213> Mus musculus

<400> 53

Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg

1 5 10 15

Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Thr

20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln

35 40 45

<210> 54

<211> 45

<212> PRT

<213> Mus musculus

<400> 54

Asp Arg Leu Gly His Leu Thr Asp Arg Leu Lys His Leu Thr Asp Arg

1 5 10 15

Leu Gly His Leu Thr Asp Arg Leu Ile His Leu Thr Asp Arg Leu Met

20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln

35 40 45

<210> 55

<211> 45

<212> PRT

<213> Mus musculus

<400> 55

Gly Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg

1 5 10 15

Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Met

20 25 30

His Leu Thr Asp Arg Leu Arg His Leu Ala Val Arg Gln

35 40 45

<210> 56

<211> 38

<212> PRT

<213> Mus musculus

<400> 56

Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg
1				5					10				15		
Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Lys	His	Leu	Ala	Asp	Arg	Leu	Lys
			20				25					30			
His	Leu	Thr	Asn	Arg	Lys										
			35												

<210> 57

<211> 184

<212> PRT

<213> Mus musculus

<400> 57

Met	Pro	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Gly	His	Leu	Ala	Asp	Arg
1					5				10				15		
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg
			20				25					30			
His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu
			35				40				45				
Ala	Asp	Arg	Leu	Lys	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp
	50				55				60						
Arg	Ser	Trp	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu
65				70				75				80			
Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Gln	Arg	Tyr
			85				90				95				
Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr
				100			105				110				
Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg
	115				120				125						
Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Met
	130				135				140						
His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Gln	Arg	His	Leu
145				150				155				160			
Ala	Asp	Arg	Gln	Arg	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Ala	Asp
			165				170				175				
Lys	Leu	Arg	His	Gln	Leu	Gln	Leu								
			180												

<210> 58

<211> 79

<212> PRT

<213> Mus musculus

<400> 58

Glu	Lys	Val	Lys	Thr	Leu	Lys	Ala	Gln	Asn	Ser	Glu	Leu	Ala	Ser	Thr
1															15
Ala	Asn	Thr	Leu	Arg	Glu	Gln	Val	Ala	Leu	Leu	Lys	Gln	Lys	Val	Met
															30
Asn	His	Val	Asn	Ser	Gly	Cys	Gln	Leu	Met	Leu	Thr	Gln	Gln	Leu	Gln
															45
Thr	Phe	Trp	Glu	Gln	Thr	Val	Arg	Ala	Glu	Gly	Gln	Trp	Lys	Lys	Lys
															50
Asn	Asn	Arg	Asp	Lys	Leu	Glu	Asn	Leu	Thr	Gly	Cys	Asp	Arg	Glu	
															60
65					70										75

<210> 59

<211> 76

<212> PRT

<213> Mus musculus

<400> 59

Arg	Ile	Lys	Ala	Glu	Arg	Lys	Arg	Met	Arg	Asn	Arg	Ile	Ala	Ala	Ser
1															15
Glu	Cys	Arg	Lys	Arg	Lys	Leu	Glu	Arg	Ile	Ala	Arg	Leu	Glu	Glu	Lys
															30
Val	Lys	Thr	Leu	Lys	Ala	Gln	Asn	Ser	Glu	Leu	Ala	Ser	Thr	Ala	Asn
															45
Met	Leu	Arg	Glu	Gln	Val	Ala	Gln	Leu	Lys	Gln	Lys	Val	Met	Asn	His
															60
Val	Asn	Ser	Gly	Cys	Gln	Leu	Met	Leu	Thr	Gln	Gln				
65						70									75

<210> 60

<211> 49

<212> PRT

<213> Mus musculus

<400> 60

Gly	His	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His
1															15
Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Ala
															30
Asp	Arg	Leu	Arg	His	Leu	Ala	Asp	Arg	Leu	Lys	His	Leu	Thr	Asp	Arg

35	40	45
----	----	----

Tyr

<210> 61
 <211> 56
 <212> PRT
 <213> Mus musculus

<400> 61
 His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu
 1 5 10 15
 Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp
 20 25 30
 Arg Leu Met His Leu Thr Asp Arg Leu Gly His Leu Ala Asp Arg Gln
 35 40 45
 Arg His Leu Ala Asp Arg Gln Arg
 50 55

<210> 62
 <211> 44
 <212> PRT
 <213> Mus musculus

<400> 62
 Ala Asp Arg Leu Gly His Leu Ala Asp Arg Leu Arg His Leu Thr Asp
 1 5 10 15
 Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu
 20 25 30
 Arg His Leu Ala Asp Arg Leu Arg His Leu Ala Asp
 35 40

<210> 63
 <211> 27
 <212> PRT
 <213> Mus musculus

<400> 63
 Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Arg His Leu Ala Asp
 1 5 10 15
 Arg Leu Arg His Leu Thr Asp Arg Leu Arg His
 20 25

<210> 64
 <211> 53
 <212> PRT
 <213> Mus musculus

<400> 64
 Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp
 1 5 10 15
 Arg Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu
 20 25 30
 Gly His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His
 35 40 45
 Leu Ala Asp Arg Pro
 50

<210> 65
 <211> 46
 <212> PRT
 <213> Mus musculus

<400> 65
 Arg Gln Arg His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu
 1 5 10 15
 Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His
 20 25 30
 Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg Pro
 35 40 45

<210> 66
 <211> 39
 <212> PRT
 <213> Mus musculus

<400> 66
 Asp Arg Leu Ser His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg
 1 5 10 15
 Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg
 20 25 30
 His Leu Ala Asp Arg Gln Arg
 35

<210> 67
 <211> 39

<212> PRT

<213> Mus musculus

<400> 67

Asp Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg
1 5 10 15Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg
20 25 30

His Leu Ala Asp Arg Gln Arg

35

<210> 68

<211> 39

<212> PRT

<213> Mus musculus

<400> 68

Gly Arg Leu Arg His Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg
1 5 10 15Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg
20 25 30

His Leu Ala Asp Arg Gln Arg

35

<210> 69

<211> 43

<212> PRT

<213> Mus musculus

<400> 69

Tyr Leu Ala Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu
1 5 10 15Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp
20 25 30

Arg Leu Arg His Leu Thr Asp Arg Leu Gly Gln

35

40

<210> 70

<211> 43

<212> PRT

<213> Mus musculus

<400> 70

Tyr	Leu	Ala	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu
1				5					10					15	
Thr	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	His	Leu	Thr	Asp
							20			25				30	
Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly	Gln					
							35			40					

<210> 71

<211> 76

<212> PRT

<213> Mus musculus

<400> 71

Arg	Ile	Lys	Ala	Glu	Arg	Lys	Arg	Met	Arg	Asn	Arg	Ile	Ala	Ala	Ser
1				5					10						15
Lys	Cys	Arg	Lys	Arg	Lys	Leu	Glu	Arg	Ile	Ala	Arg	Leu	Glu	Glu	Lys
						20			25						30
Val	Lys	Thr	Leu	Lys	Ala	Gln	Asn	Ser	Glu	Leu	Ala	Ser	Thr	Ala	Asn
						35			40						45
Met	Leu	Arg	Glu	Gln	Val	Ala	Gln	Leu	Lys	Gln	Lys	Val	Met	Asn	His
						50			55						60
Val	Asn	Ser	Gly	Cys	Gln	Leu	Met	Leu	Thr	Gln	Gln				
65						70						75			

<210> 72

<211> 44

<212> PRT

<213> Mus musculus

<400> 72

Leu	Gly	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu	Thr	Asp	Arg	Leu	Gly
1				5					10					15	
His	Leu	Thr	Asp	Arg	Leu	Met	His	Leu	Thr	Asp	Arg	Leu	Arg	His	Leu
						20			25					30	
Ala	Asp	Arg	Gln	Arg	His	Leu	Ala	Asp	Arg	Gln	Lys				
							35		40						

<210> 73

<211> 36

<212> PRT

<213> Mus musculus

<400> 73

Leu Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly
 1 5 10 15
 His Leu Thr Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His Leu
 20 25 30
 Ala Asp Thr Gln
 35

<210> 74
 <211> 44
 <212> PRT
 <213> Mus musculus

<400> 74
 Gly His Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His
 1 5 10 15
 Leu Thr Asp Arg Leu Arg His Leu Thr Asp Arg Leu Gly His Leu Thr
 20 25 30
 Asp Arg Leu Met His Leu Thr Asp Arg Leu Arg His
 35 40

<210> 75
 <211> 51
 <212> PRT
 <213> Mus musculus

<400> 75
 Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His
 1 5 10 15
 Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Met His Leu Thr
 20 25 30
 Asp Arg Leu Arg His Leu Ala Asp Arg Gln Arg His Leu Ala Asp Arg
 35 40 45
 Gln Arg His
 50

<210> 76
 <211> 51
 <212> PRT
 <213> Mus musculus

<400> 76
 Arg His Leu Thr Asp Arg Leu Gly His Leu Thr Asp Arg Leu Arg His
 1 5 10 15

<210> 77

<211> 584

<212> PRT

<213> Mus musculus

<400> 77

Asp Thr Phe Thr Pro Glu Glu Leu Leu Gln Gln Met Lys Glu Leu Leu
35 40 45

Val Glu Asn His Gln Leu Lys Glu Ala Met Lys Leu Asn Asn Gln Ala
50 55 60

Met Lys Gly Arg Phe Glu Glu Leu Ser Ala Trp Thr Glu Lys Gln Lys
65 70 75 80

Glu Glu Arg Leu Leu Phe Glu Met Gln Ser Lys Glu Val Lys Glu Arg
85 90 95

Leu Lys Ala Leu Thr His Glu Asn Glu Arg Leu Lys Glu Glu Leu Gly
100 105 110

Lys Phe Lys Glu Lys Ser Glu Lys Pro Leu Glu Asp Leu Thr Gly Gly
 115 120 125

125
Tyr Arg Tyr Pro Arg Ala Leu Glu Glu Glu Val Glu Lys Leu Lys Thr
130 135 140

Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val Met Arg Leu
145 150 155 160

Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu Leu Gln Leu
 165 170 175

Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val Glu Ile Arg
 180 185 190

Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met Lys Asn Cys
 195 200 205

Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn Cys Thr Glu
 210 215 220

Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val Ser Gln Leu
225 230 235 240

Leu Leu Cys Leu Arg Glu Gly Asn Gln Lys Val Glu Arg Leu Glu Val
 245 250 255
 Ala Leu Arg Glu Ala Lys Glu Arg Ile Ser Asp Phe Glu Lys Lys Ala
 260 265 270
 Asn Gly His Ser Ser Thr Glu Lys Gln Thr Ala Arg Arg Ala Asp Arg
 275 280 285
 Glu Lys Glu Asp Lys Gly Gln Glu Ser Val Gly Ser Glu Val Glu Thr
 290 295 300
 Leu Ser Ile Gln Val Thr Ser Leu Phe Lys Glu Leu Gln Glu Ala His
 305 310 315 320
 Thr Lys Leu Ser Glu Ala Glu Leu Met Lys Lys Arg Leu Gln Glu Lys
 325 330 335
 Cys Gln Ala Leu Glu Arg Lys Asn Ser Ala Thr Pro Ser Glu Leu Asn
 340 345 350
 Glu Lys Gln Glu Leu Val Tyr Ser Asn Lys Lys Leu Glu Leu Gln Val
 355 360 365
 Glu Ser Met Arg Ser Glu Ile Lys Met Glu Gln Ala Lys Thr Glu Glu
 370 375 380
 Glu Lys Ser Arg Leu Ala Thr Leu Gln Ala Thr His Asn Lys Leu Leu
 385 390 395 400
 Gln Glu His Asn Lys Ala Leu Lys Thr Ile Glu Glu Leu Thr Lys Gln
 405 410 415
 Gln Ala Glu Lys Val Asp Lys Met Leu Leu Gln Glu Leu Ser Glu Lys
 420 425 430
 Leu Glu Leu Ala Glu Gln Ala Leu Ala Ser Lys Gln Leu Gln Met Asp
 435 440 445
 Glu Met Lys Gln Thr Leu Ala Lys Gln Glu Glu Asp Leu Glu Thr Met
 450 455 460
 Ala Val Leu Arg Ala Gln Met Glu Val Tyr Cys Ser Asp Phe His Ala
 465 470 475 480
 Glu Arg Ala Ala Arg Glu Lys Ile His Glu Glu Lys Glu Gln Leu Ala
 485 490 495
 Leu Gln Leu Ala Ile Leu Leu Lys Glu Asn Asn Asp Ile Glu Glu Gly
 500 505 510
 Gly Ser Arg Gln Ser Leu Met Glu Met Gln Cys Arg His Gly Ala Arg
 515 520 525
 Thr Ser Asp Ser Asp Gln Gln Thr Tyr Leu Phe Gln Arg Gly Ala Glu
 530 535 540
 Asp Arg Ser Trp Gln His Gly Gln Gln Pro Arg Ser Ile Pro Ile His
 545 550 555 560
 Ser Cys Pro Lys Cys Gly Glu Val Leu Pro Asp Ile Asp Thr Leu Gln
 565 570 575
 Ile His Val Met Asp Cys Ile Ile

<210> 78
 <211> 108
 <212> PRT
 <213> Mus musculus

<400> 78
 Leu Lys Thr Gln Val Glu Gln Glu Val Glu His Leu Lys Ile Gln Val
 1 5 10 15
 Met Arg Leu Arg Ala Glu Lys Ala Asp Leu Leu Gly Ile Val Ser Glu
 20 25 30
 Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser Ser Glu Asp Ser Phe Val
 35 40 45
 Glu Ile Arg Met Thr Glu Gly Glu Thr Glu Gly Ala Met Lys Glu Met
 50 55 60
 Lys Ser Cys Pro Thr Pro Thr Arg Thr Asp Pro Ile Ser Leu Ser Asn
 65 70 75 80
 Cys Thr Glu Asp Ala Arg Ser Cys Ala Glu Phe Glu Glu Leu Thr Val
 85 90 95
 Ser Gln Leu Leu Cys Leu Arg Glu Gly Asn Gln
 100 105

<210> 79
 <211> 62
 <212> PRT
 <213> Mus musculus

<400> 79
 His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu
 1 5 10 15
 Leu Gly Ile Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser
 20 25 30
 Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu
 35 40 45
 Gly Ala Met Lys Glu Met Lys Asn Cys Pro Thr Pro Thr Arg
 50 55 60

<210> 80
 <211> 62
 <212> PRT
 <213> Mus musculus

<400> 80

His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu
 1 5 10 15
 Leu Gly Ile Val Ser Glu Leu Gln Leu Lys Leu Asn Ser Gly Gly Ser
 20 25 30
 Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu
 35 40 45
 Gly Ala Met Lys Glu Met Lys Asn Cys Pro Ala Pro Thr Arg
 50 55 60

<210> 81

<211> 62

<212> PRT

<213> *Mus musculus*

<400> 81

His Leu Lys Ile Gln Val Met Arg Leu Arg Ala Glu Lys Ala Asp Leu
 1 5 10 15
 Leu Gly Ile Val Ser Glu Leu Arg Leu Lys Leu Asn Ser Gly Gly Ser
 20 25 30
 Ser Glu Asp Ser Phe Val Glu Ile Arg Met Thr Glu Gly Glu Thr Glu
 35 40 45
 Gly Ala Met Lys Glu Met Lys Asn Cys Pro Thr Pro Thr Arg
 50 55 60

<210> 82

<211> 102

<212> PRT

<213> *Mus musculus*

<400> 82

Met Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu Glu Glu Thr Leu Leu
 1 5 10 15
 Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn Arg Leu Lys Val Glu
 20 25 30
 Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg Gly Arg Thr Glu Thr
 35 40 45
 Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys Asp Met Ser Leu His
 50 55 60
 Val Asp Asn Glu Val Thr Ile Asn Gln Thr Thr Leu Lys Leu Ser Thr
 65 70 75 80
 Arg Ser Pro Met Glu
 85 90 95

Glu Glu Glu Ser Asp Ser
100

<210> 83
<211> 56
<212> PRT
<213> Mus musculus

<400> 83
Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys
1 5 10 15
Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr
20 25 30
Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln Leu Leu Leu Ala His
35 40 45

Lys Asp Cys Pro Val Thr Ala Gln
50 55

<210> 84
<211> 79
<212> PRT
<213> Mus musculus

<400> 84
Arg Lys Trp Lys Gly Thr Leu Ser Arg Leu Gln Glu Leu Arg Lys Glu
1 5 10 15
Val Glu Thr Pro Leu Arg Leu Lys Ala Ala Leu His Asp Gln Leu Asn
20 25 30
Arg Leu Lys Val Glu Glu Leu Ala Leu Gln Ser Met Ile Asn Ser Arg
35 40 45
Gly Arg Thr Glu Thr Leu Ser Ser Gln Pro Ala Pro Glu Gln Leu Cys
50 55 60
Asp Met Ser Leu His Val Asp Asn Glu Val Thr Ile Asn Gln Thr
65 70 75

<210> 85
<211> 413
<212> PRT
<213> Mus musculus

<400> 85
Met Gly Asp Asp Arg Pro Phe Val Cys Ser Ala Pro Gly Cys Gly Gln

1	5	10	15
Arg Phe Thr Asn Glu Asp His Leu Ala Val His Lys His Lys His Glu			
20	25	30	
Met Thr Leu Lys Phe Gly Pro Ala Arg Thr Asp Ser Val Ile Ile Ala			
35	40	45	
Asp Gln Thr Pro Thr Pro Thr Arg Phe Leu Lys Asn Cys Glu Glu Val			
50	55	60	
Gly Leu Phe Asn Glu Leu Ala Ser Ser Phe Glu His Glu Phe Lys Lys			
65	70	75	80
Ala Ser Asp Asp Asp Glu Lys Lys Gly Ala Ala Gly Pro Leu Asp Met			
85	90	95	
Ser Leu Pro Ser Thr Pro Asp Ile Lys Ile Lys Glu Glu Glu Pro Val			
100	105	110	
Glu Val Asp Ser Ser Pro Pro Asp Ser Pro Ala Ser Ser Pro Cys Ser			
115	120	125	
Pro Pro Leu Lys Glu Lys Glu Val Thr Thr Lys Pro Val Val Ile Ser			
130	135	140	
Thr Pro Thr Pro Thr Ile Val Arg Pro Gly Ser Leu Pro Leu His Leu			
145	150	155	160
Gly Tyr Asp Pro Leu His Pro Thr Leu Pro Ser Pro Thr Ser Val Ile			
165	170	175	
Thr Gln Ala Pro Pro Ser Asn Arg Gln Ile Gly Ser Pro Thr Gly Ser			
180	185	190	
Leu Pro Leu Val Met His Leu Ala Asn Gly Gln Thr Met Pro Met Leu			
195	200	205	
Pro Gly Pro Pro Val Gln Met Pro Ser Val Ile Ser Leu Ala Arg Pro			
210	215	220	
Val Ser Met Val Pro Asn Ile Pro Gly Ile Pro Gly Pro Pro Val Asn			
225	230	235	240
Asn Ser Gly Ser Ile Ser Pro Ser Gly His Pro Met Pro Ser Glu Ala			
245	250	255	
Lys Met Arg Leu Lys Ala Thr Leu Thr His Gln Val Ser Ser Ile Asn			
260	265	270	
Gly Gly Cys Gly Met Val Val Gly Thr Ala Ser Thr Met Val Thr Ala			
275	280	285	
Arg Pro Glu Gln Asn Gln Ile Leu Ile Gln His Pro Asp Ala Pro Ser			
290	295	300	
Pro Ala Gln Pro Gln Val Ser Pro Ala Gln Pro Thr Pro Ser Thr Gly			
305	310	315	320
Gly Arg Arg Arg Arg Thr Val Asp Glu Asp Pro Asp Glu Arg Arg Gln			
325	330	335	
Arg Phe Leu Glu Arg Asn Arg Ala Ala Ser Arg Cys Arg Gln Lys			
340	345	350	

Arg Lys Leu Trp Val Ser Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr
 355 360 365
 Ser Gln Asn Ile Gln Leu Ser Asn Glu Val Thr Leu Leu Arg Asn Glu
 370 375 380
 Val Ala Gln Leu Lys Gln Leu Leu Leu Ala His Lys Asp Cys Pro Val
 385 390 395 400
 Thr Ala Leu Gln Lys Lys Thr Gln Gly Tyr Leu Gly Lys
 405 410

<210> 86

<211> 58

<212> PRT

<213> Mus musculus

<400> 86

Arg Ala Ala Ala Ser Arg Cys Arg Gln Lys Arg Lys Leu Trp Val Ser
 1 5 10 15
 Ser Leu Glu Lys Lys Ala Glu Glu Leu Thr Ser Gln Asn Ile Gln Leu
 20 25 30
 Ser Asn Lys Val Thr Leu Leu Arg Asn Glu Val Ala Gln Leu Lys Gln
 35 40 45
 Leu Leu Leu Ala His Lys Asp Cys Pro Gly
 50 55

<210> 87

<211> 1031

<212> PRT

<213> Mus musculus

<400> 87

Met Thr Asn Pro Lys Gly Lys Arg Arg Gly Thr Gln Ser Met Phe Ser
 1 5 10 15
 Arg Pro Phe Arg Lys His Gly Val Val Ser Leu Ala Thr Tyr Met Arg
 20 25 30
 Ile Tyr Lys Lys Arg Asp Ile Val Asp Ile Lys Gly Met Gly Thr Val
 35 40 45
 Gln Lys Gly Met Pro Cys Lys Cys Tyr His Gly Lys Thr Gly Arg Val
 50 55 60
 Tyr Asn Val Thr Gln His Ala Met Gly Ile Ile Val Asn Lys Gln Val
 65 70 75 80
 Lys Gly Lys Ile Leu Ala Lys Arg Ile Asn Val Gln Ile Glu His Ile
 85 90 95
 Lys His Ser Lys Ser Arg Asp Gly Phe Leu Lys Gln Gly Glu Ala Ala

	100	105	110												
His	Phe	Glu	Tyr	Leu	Leu	Tyr	Pro	Leu	His	Ser	Ala	Ser	Ile	Thr	Gly
	115			120									125		
Leu	Ala	Thr	Cys	Ile	Arg	Lys	Pro	Leu	Ile	Ala	Thr	Cys	Ser	Leu	Asp
	130			135									140		
Arg	Ser	Val	Arg	Ile	Trp	Asn	Tyr	Glu	Ser	Asn	Ser	Ser	Cys	Cys	Lys
	145			150								155			160
Ala	Leu	Arg	Glu	Asp	Leu	Trp	Leu	Leu	Leu	Leu	Phe	His	Ile	Thr	Ala
	165							170						175	
Pro	Ala	Thr	Leu	Ser	Ser	Pro	Pro	Val	Ile	Phe	Phe	Cys	Thr	Leu	Glu
	180							185					190		
Leu	Tyr	Lys	Glu	Tyr	Gln	Glu	Glu	Ala	Tyr	Thr	Val	Ser	Leu	His	Pro
	195					200						205			
Ser	Gly	His	Tyr	Ile	Val	Val	Gly	Phe	Ala	Asp	Lys	Leu	Arg	Leu	Met
	210				215						220				
Asn	Leu	Leu	Ile	Asp	Asp	Ile	Arg	Ser	Phe	Lys	Glu	Tyr	Ser	Val	Arg
	225				230					235				240	
Gly	Cys	Lys	Glu	Cys	Ala	Phe	Ser	Asn	Gly	Gly	His	Leu	Phe	Ala	Ala
	245						250						255		
Val	Asn	Gly	Asn	Val	Ile	His	Ile	Phe	Thr	Thr	Thr	Asn	Leu	Glu	Asn
	260						265					270			
Ile	Asn	Asn	Leu	Lys	Gly	His	Thr	Gly	Lys	Arg	Glu	Thr	Glu	Cys	Val
	275					280						285			
Leu	Lys	Val	Cys	Ser	Tyr	Asn	Ser	Val	Thr	Ile	Ser	Pro	Asp	Gly	Lys
	290				295					300					
Val	Ile	Phe	Ala	Val	Gly	Ser	Asp	Gln	Thr	Leu	Lys	Glu	Ile	Ala	Asp
	305				310				315				320		
Ser	Leu	Ile	Leu	Arg	Glu	Ile	Pro	Ala	Phe	Asp	Val	Val	Tyr	Thr	Ala
	325							330					335		
Ile	Thr	Ile	Ser	His	Ser	Gly	Arg	Met	Ile	Phe	Val	Gly	Thr	Ser	Val
	340					345					350				
Gly	Thr	Ile	Arg	Ala	Met	Lys	Tyr	Pro	Leu	Pro	Leu	Gln	Arg	Glu	Phe
	355					360					365				
Asn	Glu	Tyr	Gln	Ala	His	Ala	Gly	Pro	Val	Thr	Lys	Ile	Leu	Leu	Thr
	370				375					380					
Phe	Asp	Asp	Gln	Phe	Leu	Leu	Thr	Val	Ser	Glu	Asp	Gly	Cys	Leu	Phe
	385				390				395				400		
Thr	Trp	Lys	Val	Phe	Asp	Lys	Glu	Gly	Arg	Gly	Ile	Lys	Arg	Glu	Arg
	405						410					415			
Glu	Val	Gly	Phe	Ala	Glu	Glu	Val	Leu	Val	Thr	Lys	Thr	Asp	Met	Glu
	420					425					430				
Glu	Lys	Ile	Leu	His	Arg	Asn	Leu	Ala	Thr	Glu	Phe	Arg	Arg	Pro	Met
	435					440					445				

Ser Lys His Leu Glu Cys Pro Thr Ser Glu Thr Gly Pro Leu Thr Thr
 450 455 460
 Ile Asn Ile Ser Pro Val Gln Pro Arg Pro Trp Gly His Val Leu Thr
 465 470 475 480
 Cys Arg Thr Pro Val Ser Thr Asp Ser Ala Val Ala Ser Thr Arg Gly
 485 490 495
 Ser Val Asp Ser Ala Val Lys Pro Asp Arg Ser Thr Pro Thr Gln Glu
 500 505 510
 Val Arg Ile Pro Pro Lys Pro Ala Ser Gly Val His Thr Arg Cys Gln
 515 520 525
 Leu Gly Val Gln Lys Gln Met Glu His Val Ser Val Val Met Glu Val
 530 535 540
 Arg Glu Thr Asn Arg Gln Arg Gln Gly Gly Ala Arg Asn Val Ile
 545 550 555 560
 Lys Ala Gln Ile Met Leu Glu Leu Lys Thr Arg Val Glu Glu Leu Lys
 565 570 575
 Met Glu Asn Glu Tyr Gln Leu Arg Leu Lys Asp Met Asn Tyr Ser Glu
 580 585 590
 Lys Ile Lys Glu Leu Thr Asp Lys Phe Ile Gln Glu Met Glu Ser Leu
 595 600 605
 Lys Thr Lys Asn Gln Val Leu Lys Thr Glu Lys Glu Lys Gln Asp Ile
 610 615 620
 Ser His Arg Glu His Leu Glu Asp Leu Ile Glu Arg Gln Ser Arg Glu
 625 630 635 640
 Leu Gln Asp Leu Glu Cys Cys Asn Asn Gln Lys Leu Leu Glu Tyr
 645 650 655
 Glu Lys Tyr Gln Glu Leu Gln Leu Lys Ser Gln Arg Met Gln Glu Glu
 660 665 670
 Tyr Glu Lys Gln Leu Arg Asp Asn Asp Glu Thr Lys Ser Gln Ala Leu
 675 680 685
 Glu Glu Leu Thr Glu Phe Tyr Glu Ala Lys Leu Gln Glu Lys Thr Gly
 690 695 700
 Leu Leu Glu Glu Ala Leu Ser Thr Ala Ala Ser Pro Pro Leu Pro Ser
 705 710 715 720
 Ala His Val Leu Ser Pro Phe Pro Thr Leu Ser Gln Ala Gln Glu Asp
 725 730 735
 Val Arg Gln Gln Leu Arg Glu Phe Glu Glu Thr Lys Lys Gln Ile Glu
 740 745 750
 Glu Asp Glu Asp Arg Glu Ile Gln Asp Ile Lys Thr Lys Tyr Glu Arg
 755 760 765
 Lys Leu Arg Asp Glu Lys Glu Ser Asn Leu Arg Leu Lys Gly Glu Thr
 770 775 780
 Gly Ile Met Arg Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu

785	790	795	800
Arg Thr Asn Asp Ile Glu Leu Leu Lys	Thr Glu Gln Val Lys Leu Gln		
805	810	815	
Gly Val Ile Arg Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu			
820	825	830	
Ile Gln Glu Arg Asp Glu Thr Ile Gln Asp Lys Glu Lys Arg Ile Tyr			
835	840	845	
Asp Leu Lys Lys Asn Gln Glu Leu Glu Lys Phe Lys Phe Val Leu			
850	855	860	
Asp Tyr Lys Ile Lys Glu Leu Lys Lys Gln Ile Glu Pro Arg Glu Asn			
865	870	875	880
Glu Ile Lys Val Met Lys Glu Gln Ile Gln Glu Asn Pro Val Asn His			
885	890	895	
Trp Leu Arg Ser Arg Glu Arg Glu Cys Val Thr Gln Pro Arg His Leu			
900	905	910	
Arg Leu Pro Ala Pro Gln Asn Lys Leu Asp Gly Asn Leu Ala Cys Gly			
915	920	925	
Pro Val Arg Gly Arg Leu Cys His Ser Asp Ala Thr Ser Gly Ala Leu			
930	935	940	
Asn Val Gln Gly Ile Leu Cys Leu Phe His Leu Pro Phe Pro Cys Asp			
945	950	955	960
Arg Thr Pro Ser Phe Phe Pro Gly Glu Ala Cys Leu Leu Val Phe Ser			
965	970	975	
Leu Leu Ile Asp Val Leu Cys Arg Pro Thr Ser Asp Val Pro Val Ala			
980	985	990	
Ala Gly Asp Phe Leu Pro Cys Gly Gly Pro Leu His Leu Pro Pro Glu			
995	1000	1005	
Leu His His Leu Thr Val Ile Arg Thr Asn Ala Ser Pro Gln Lys			
1010	1015	1020	
Cys Tyr Pro Pro Thr Ser Pro Leu			
1025	1030		

<210> 88
 <211> 70
 <212> PRT
 <213> Mus musculus

<400> 88
 Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu Arg Thr Asn Asp
 1 5 10 15
 Ile Glu Leu Leu Lys Ser Glu Arg Met Lys Leu Gln Gly Ile Ile Arg
 20 25 30
 Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu Ile Gln Glu Arg

35	40	45
Asp Glu Thr Ile Gln Asp Met Glu Lys Leu Asp Tyr Lys Asp Asp Tyr		
50	55	60
Asn Ser Asn Leu Glu Ile		
65		

<210> 89
<211> 56
<212> PRT
<213> *Mus musculus*

<400> 89
 Lys Lys Phe Ser Ser Leu Gln Lys Glu Ile Glu Glu Arg Thr Asn Asp
 1 5 10 15
 Ile Glu Leu Leu Lys Ser Glu Arg Met Lys Leu Gln Gly Ile Ile Arg
 20 25 30
 Ser Leu Glu Lys Asp Ile Gln Gly Leu Lys Arg Glu Ile Gln Glu Arg
 35 40 45
 Asp Glu Thr Ile Gln Asp Met Glu
 50 55

<210> 90
<211> 217
<212> PRT
<213> Mus musculus

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<400> 90
Met Glu Val Glu Asn Glu Ala His Cys Cys Pro Gly Ser Ser Ser Gly
1           5           10          15
Gly Ser Arg Glu Tyr Lys Val Val Met Leu Gly Ala Gly Gly Val Gly
20          25          30
Lys Ser Ala Val Thr Met Gln Phe Ile Ser His Gln Phe Pro Asp Tyr
35          40          45
His Asp Pro Thr Ile Glu Asp Ala Tyr Lys Thr Gln Val Arg Ile Asp
50          55          60
Asn Glu Pro Ala Tyr Leu Asp Ile Leu Asp Thr Ala Gly Gln Ala Glu
65          70          75          80
Phe Thr Ala Met Arg Glu Gln Tyr Met Arg Gly Gly Glu Gly Phe Ile
85          90          95
Ile Cys Tyr Ser Val Thr Asp Arg Gln Ser Phe Gln Glu Ala Ala Lys
100         105         110
Phe Lys Glu Leu Ile Phe Gln Val Arg His Thr Tyr Glu Ile Pro Leu
115         120         125

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Val Leu Val Gly Asn Lys Ile Asp Leu Glu Gln Phe Arg Gln Val Ser
 130 135 140
 Thr Glu Glu Gly Met Asn Leu Ala Arg Asp Tyr Asn Cys Ala Phe Phe
 145 150 155 160
 Glu Thr Ser Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Phe Gln Gly
 165 170 175
 Leu Val Arg Glu Ile Arg Arg Lys Glu Ser Met Leu Ser Leu Val Glu
 180 185 190
 Arg Lys Leu Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser
 195 200 205
 Leu Lys Lys Arg Glu Asn Met Leu
 210 215

<210> 91
<211> 50
<212> PRT
<213> Mus musculus

<400> 91
Ala Ala Leu Arg Phe Gly Ile Asp Asp Ala Leu Gln Gly Leu Val Arg
1 5 10 15
Glu Ile Arg Arg Lys Glu Ser Met Leu Pro Leu Val Glu Arg Lys Leu
20 25 30
Lys Arg Lys Asp Ser Leu Trp Lys Lys Ile Lys Ala Ser Leu Lys Lys
35 40 45
Lys Arg
50

<210> 92
<211> 140
<212> PRT
<213> Mus musculus

<400> 92
Gly Ala Thr Val Ile Thr Asn Leu Leu Ser Ala Ile Pro Tyr Ile Gly
1 5 10 15
Thr Thr Leu Val Glu Trp Ile Trp Gly Gly Phe Ser Val Asp Lys Ala
20 25 30
Thr Leu Thr Arg Phe Phe Ala Phe His Phe Ile Leu Pro Phe Ile Ile
35 40 45
Ala Ala Leu Ala Ile Val His Leu Leu Phe Leu His Glu Thr Gly Ser
50 55 60
Asn Asn Pro Thr Gly Leu Asn Ser Asp Ala Asp Lys Ile Pro Phe His

65	70	75	80
Pro Tyr Tyr Thr Ile Lys Asp Ile Leu Gly Ile Leu Ile Met Phe Leu			
	85	90	95
Ile Leu Met Thr Leu Val Phe Phe Pro Asp Met Leu Gly Asp Pro			
	100	105	110
Asp Asn Tyr Met Pro Ala Asn Pro Leu Asn Thr Pro Pro His Ile Lys			
	115	120	125
Pro Glu Trp Tyr Phe Leu Phe Ala Tyr Ala Ile Leu			
	130	135	140

<210> 93
<211> 41
<212> PRT
<213> *Mus musculus*

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<400> 93
Ser Asp Ala Asp Lys Ile Pro Phe His Pro Tyr Tyr Thr Ile Lys Asn
1           5           10           15
Ile Leu Gly Ile Leu Ile Ile Phe Leu Ile Leu Ile Thr Leu Val Leu
                     20           25           30
Phe Phe Pro Asp Ile Leu Gly Asp Pro
                     35           40

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<210> 94
<211> 311
<212> PRT
<213> Mus musculus

Arg Leu Gly Ala Asp Met Glu Asp Leu Arg Asn Arg Leu Gly Gln Tyr
 115 120 125
 Arg Asn Glu Val His Thr Met Leu Gly Gln Ser Thr Glu Glu Ile Arg
 130 135 140
 Ala Arg Leu Ser Thr His Leu Arg Lys Met Arg Lys Arg Leu Met Arg
 145 150 155 160
 Asp Ala Asp Asp Leu Gln Lys Arg Leu Ala Val Tyr Lys Ala Gly Ala
 165 170 175
 Arg Glu Gly Ala Glu Arg Gly Val Ser Ala Ile Arg Glu Arg Leu Gly
 180 185 190
 Pro Leu Val Glu Gln Gly Arg Gln Arg Thr Ala Asn Leu Gly Ala Gly
 195 200 205
 Ala Ala Gln Pro Leu Arg Asp Arg Ala Gln Ala Phe Gly Asp Arg Ile
 210 215 220
 Arg Gly Arg Leu Glu Glu Val Gly Asn Gln Ala Arg Asp Arg Leu Glu
 225 230 235 240
 Glu Val Arg Glu His Met Glu Glu Val Arg Ser Lys Met Glu Glu Gln
 245 250 255
 Thr Gln Gln Ile Arg Leu Gln Ala Glu Ile Phe Gln Ala Arg Leu Lys
 260 265 270
 Gly Trp Phe Glu Pro Ile Val Glu Asp Met His Arg Gln Trp Ala Asn
 275 280 285
 Leu Met Glu Lys Ile Gln Ala Ser Val Ala Thr Asn Pro Ile Ile Thr
 290 295 300
 Pro Val Ala Gln Glu Asn Gln
 305 310

<210> 95
 <211> 31
 <212> PRT
 <213> Mus musculus

<400> 95
 Thr Glu Val Lys Ala Tyr Lys Lys Glu Leu Glu Glu Gln Leu Gly Pro
 1 5 10 15
 Val Ala Glu Glu Thr Arg Ala Arg Leu Gly Lys Glu Glu Gln Gly
 20 25 30

<210> 96
 <211> 695
 <212> PRT
 <213> Mus musculus

〈400〉 96

Met	Leu	Pro	Ser	Leu	Ala	Leu	Leu	Leu	Ala	Ala	Trp	Thr	Val	Arg	
1				5				10				15			
Ala	Leu	Glu	Val	Pro	Thr	Asp	Gly	Asn	Ala	Gly	Leu	Leu	Ala	Glu	Pro
				20				25				30			
Gln	Ile	Ala	Met	Phe	Cys	Gly	Lys	Leu	Asn	Met	His	Met	Asn	Val	Gln
					35			40			45				
Asn	Gly	Lys	Trp	Glu	Ser	Asp	Pro	Ser	Gly	Thr	Lys	Thr	Cys	Ile	Gly
					50			55			60				
Thr	Lys	Glu	Gly	Ile	Leu	Gln	Tyr	Cys	Gln	Glu	Val	Tyr	Pro	Glu	Leu
					65			70			75			80	
Gln	Ile	Thr	Asn	Val	Val	Glu	Ala	Asn	Gln	Pro	Val	Thr	Ile	Gln	Asn
					85				90				95		
Trp	Cys	Lys	Arg	Gly	Arg	Lys	Gln	Cys	Lys	Thr	His	Thr	His	Ile	Val
					100				105				110		
Ile	Pro	Tyr	Arg	Cys	Leu	Val	Gly	Glu	Phe	Val	Ser	Asp	Ala	Leu	Leu
					115			120				125			
Val	Pro	Asp	Lys	Cys	Lys	Phe	Leu	His	Gln	Glu	Arg	Met	Asp	Val	Cys
					130			135			140				
Glu	Thr	His	Leu	His	Trp	His	Thr	Val	Ala	Lys	Glu	Thr	Cys	Ser	Glu
					145			150			155			160	
Lys	Ser	Thr	Asn	Leu	His	Asp	Tyr	Gly	Met	Leu	Leu	Pro	Cys	Gly	Ile
					165				170				175		
Asp	Lys	Phe	Arg	Gly	Val	Glu	Phe	Val	Cys	Cys	Pro	Leu	Ala	Glu	Glu
					180				185	.			190		
Ser	Asp	Ser	Val	Asp	Ser	Ala	Asp	Ala	Glu	Glu	Asp	Asp	Ser	Asp	Val
					195			200				205			
Trp	Trp	Val	Gly	Ala	Asp	Thr	Asp	Tyr	Ala	Asp	Gly	Gly	Glu	Asp	Lys
					210	.		215			220				
Val	Val	Glu	Val	Ala	Glu	Glu	Glu	Glu	Val	Ala	Asp	Val	Glu	Glu	
					225			230			235			240	
Glu	Ala	Asp	Asp	Asp	Glu	Asp	Val	Glu	Asp	Gly	Asp	Glu	Val	Glu	Glu
					245				250				255		
Glu	Ala	Glu	Glu	Pro	Tyr	Glu	Glu	Ala	Thr	Glu	Arg	Thr	Thr	Ser	Thr
					260				265				270		
Ala	Thr	Thr	Thr	Thr	Thr	Thr	Glu	Ser	Val	Glu	Glu	Val	Val	Arg	
					275			280				285			
Val	Pro	Thr	Thr	Ala	Ala	Ser	Thr	Pro	Asp	Ala	Val	Asp	Lys	Tyr	Leu
					290			295				300			
Glu	Thr	Pro	Gly	Asp	Glu	Asn	Glu	His	Ala	His	Phe	Gln	Lys	Ala	Lys
					305			310			315			320	
Glu	Arg	Leu	Glu	Ala	Lys	His	Arg	Glu	Arg	Met	Ser	Gln	Val	Met	Arg
					325				330				335		

Glu Trp Glu Glu Ala Glu Arg Gln Ala Lys Asn Leu Pro Lys Ala Asp
 340 345 350
 Lys Lys Ala Val Ile Gln His Phe Gln Glu Lys Val Glu Ser Leu Glu
 355 360 365
 Gln Glu Ala Ala Asn Glu Arg Gln Gln Leu Val Glu Thr His Met Ala
 370 375 380
 Arg Val Glu Ala Met Leu Asn Asp Arg Arg Leu Asp Leu Glu Asn
 385 390 395 400
 Tyr Ile Ile Ala Leu Gln Ala Val Pro Pro Arg Pro His His Val Phe
 405 410 415
 Asn Met Leu Lys Lys Tyr Val Arg Ala Glu Gln Lys Asp Arg Gln His
 420 425 430
 Thr Leu Lys His Phe Glu His Val Arg Met Val Asp Pro Lys Lys Ala
 435 440 445
 Thr Gln Ile Arg Ser Gln Val Met Thr His Leu Arg Val Ile Tyr Glu
 450 455 460
 Arg Met Asn Gln Ser Leu Ser Leu Leu Tyr Asn Val Pro Ala Val Ala
 465 470 475 480
 Glu Glu Ile Gln Asp Glu Val Asp Glu Leu Leu Gln Lys Glu Gln Asn
 485 490 495
 Tyr Ser Asp Asp Val Leu Ala Asn Met Ile Ser Glu Pro Arg Ile Ser
 500 505 510
 Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu Thr Glu Thr Lys Thr Thr
 515 520 525
 Val Glu Leu Leu Pro Val Asn Gly Glu Phe Ser Leu Asp Asp Leu Gln
 530 535 540
 Pro Trp His Pro Phe Gly Val Asp Ser Val Pro Ala Asn Thr Glu Asn
 545 550 555 560
 Glu Val Glu Pro Val Asp Ala Arg Pro Ala Ala Asp Arg Gly Leu Thr
 565 570 575
 Thr Arg Pro Gly Ser Gly Leu Thr Asn Ile Lys Thr Glu Glu Ile Ser
 580 585 590
 Glu Val Lys Met Asp Ala Glu Phe Gly His Asp Ser Gly Phe Glu Val
 595 600 605
 Arg His Gln Lys Leu Val Phe Phe Ala Glu Asp Val Gly Ser Asn Lys
 610 615 620
 Gly Ala Ile Ile Gly Leu Met Val Gly Gly Val Val Ile Ala Thr Val
 625 630 635 640
 Ile Val Ile Thr Leu Val Met Leu Lys Lys Lys Gln Tyr Thr Ser Ile
 645 650 655
 His His Gly Val Val Glu Val Asp Ala Ala Val Thr Pro Glu Glu Arg
 660 665 670
 His Leu Ser Lys Met Gln Gln Asn Gly Tyr Glu Asn Pro Thr Tyr Lys

675	680	685
Phe Phe Glu Gln Met Gln Asn		
690	695	
<210> 97		
<211> 68		
<212> PRT		
<213> Mus musculus		
<400> 97		
Ser Glu Pro Arg Ile Ser Tyr Gly Asn Asp Ala Leu Met Pro Ser Leu		
1	5	10
Thr Glu Thr Lys Thr Thr Val Glu Leu Leu Pro Val Asn Gly Glu Phe		
20	25	30
Ser Leu Asp Asp Leu Gln Pro Trp His Pro Ser Gly Val Asp Ser Val		
35	40	45
Pro Ala Asn Thr Glu Asn Glu Val Glu Pro Val Asp Ala Arg Pro Ala		
50	55	60
Ala Asp Arg Gly		
65		
<210> 98		
<211> 983		
<212> PRT		
<213> Mus musculus		
<400> 98		
Met Lys Ala Gln Gln Ala Met Asp Lys Tyr Glu Gly Asp Ser Lys Ala		
1	5	10
Arg Glu Thr Arg Ser Thr Ala Ala Met Val Gly Trp Arg Ser Asp Arg		
20	25	30
Gly Leu Val Thr Cys Thr Arg Leu Arg Met Gln Asn Gly Ser Ser Leu		
35	40	45
Lys Ala Phe Arg Ser Arg Val Gly Lys Trp Gly Glu Pro Ser Ser Arg		
50	55	60
Ser His Lys Val Leu Lys Thr Ser Glu Thr Ser Gln Asp Ile Gln Lys		
65	70	75
80		
Val Ser Arg Glu Glu Ser Pro Ser Gln Leu Thr Ser Ala Val Pro Ala		
85	90	95
Gln Arg Asn Cys Gln Pro Gly Ser Ala Ala Val Ile Asn Met Leu Arg		
100	105	110
Gly Gly Gly Val Arg Ser Pro Trp Thr Asp His His Ile Arg Gln		
115	120	125

Arg Thr Asp His His Ile Arg Gln Pro Leu Phe Pro Ser Arg Arg Ser
 130 135 140
 Pro Gln Glu Asn Glu Asp Asp Asp Asp Tyr Gln Met Phe Val Pro
 145 150 155 160
 Ser Phe Ser Ser Ser Asp Leu Asn Ser Thr Arg Leu Cys Glu Asn
 165 170 175
 Ala Ser Ser Arg Pro Cys Ser Trp His Leu Gly Leu Ile Glu Pro Thr
 180 185 190
 Glu Ile Ser Ser Ser Gly His Arg Ile Val Arg Arg Ala Ser Ser Ala
 195 200 205
 Gly Glu Ser Asn Ala Cys Pro Pro Glu Val Arg Ile Arg Asp Cys Asp
 210 215 220
 Asp Ser Gln Tyr Cys Pro Gly Arg Gln Leu Gln Asn Ser Pro Arg Pro
 225 230 235 240
 Gly Gly Glu Arg Gly Met Thr Pro Tyr Gly Ser Ser Val Glu Leu Thr
 245 250 255
 Ile Asp Asp Ile Asp His Val Tyr Asp Asn Ile Ser Phe Glu Asp Leu
 260 265 270
 Lys Leu Met Val Ala Lys Arg Asp Glu Thr Glu Cys Ser Phe Ser Lys
 275 280 285
 Pro Ser Arg Asp Ser Val Arg Pro Lys Ser Thr Pro Glu Leu Ala Phe
 290 295 300
 Ser Lys Arg Gln Val Ser His Ser Thr Ser Leu His Ser Arg Lys
 305 310 315 320
 Glu Ala Gly Leu Gly Gly Gln Glu Ala Ser Thr Gln Ser Val His Glu
 325 330 335
 His Gln Glu Val Glu Glu Asn Ile Tyr Asp Thr Ile Gly Leu Pro Asp
 340 345 350
 Pro Pro Ser Met Asn Leu Asn His Ser Ser Leu His Gln Pro Lys Arg
 355 360 365
 Ser Thr Phe Leu Gly Leu Glu Ala Asp Phe Ala Cys Cys Asp Ser Leu
 370 375 380
 Arg Pro Phe Val Ser Gln Asp Ser Leu Gln Phe Ser Glu Asp Asp Ile
 385 390 395 400
 Ser Tyr His Gln Gly Pro Ser Asp Thr Glu Tyr Leu Ser Leu Leu Tyr
 405 410 415
 Asp Ser Pro Arg Cys Asn Leu Pro Ile Ala Asp Lys Ala Leu Ser Asp
 420 425 430
 Lys Leu Ser Glu Glu Val Asp Glu Ile Trp Asn Asp Leu Glu Asn Tyr
 435 440 445
 Ile Lys Lys Asn Glu Asp Lys Ser Arg Asp Arg Leu Leu Ala Ala Phe
 450 455 460
 Pro Val Ser Lys Asp Asp Ala Pro Glu Arg Leu Tyr Val Asp Ser Thr

465	470	475	480
His Glu Leu Gly Arg Asp Thr Gly His Ala Thr Ser Met Leu Ala Leu			
485	490	495	
Pro Thr Ser Gln Thr Phe Leu Leu Pro Gly Lys Ser Arg Val Val Arg			
500	505	510	
Ala Ser Arg Ala Asn Cys Ser Leu Asp Asn Asp Ile Ile Ser Thr Glu			
515	520	525	
Gly Ser Phe Leu Ser Leu Asn Gln Leu Ser Leu Ala Ser Asp Gly Pro			
530	535	540	
Pro Val Asp Asn Pro Tyr Asp Leu Ala Asn Cys Ser Leu Pro Gln Thr			
545	550	555	560
Asp Pro Glu Asn Pro Asp Pro Gly Met Glu Val Thr Asp Lys Thr Lys			
565	570	575	
Ser Arg Val Phe Met Met Ala Arg Gln Tyr Ser Gln Lys Ile Lys Lys			
580	585	590	
Val Asn Gln Ile Leu Lys Val Lys Ser Pro Glu Leu Glu Gln Pro Pro			
595	600	605	
Ser Ser Gln His Arg Pro Ser His Lys Asp Leu Val Ala Ile Leu Glu			
610	615	620	
Glu Lys Arg Gln Gly Gly Pro Ala Ile Gly Ala Arg Ile Ala Glu Tyr			
625	630	635	640
Ser Gln Leu Tyr Asp Gln Ile Val Phe Arg Glu Thr Pro Leu Lys Ala			
645	650	655	
Gln Lys Asp Gly Trp Ala Ser Pro Gln Gly Pro Thr Leu His Arg Pro			
660	665	670	
Val Ser Pro Pro Gln Ala Gln Gly Ala Gly Glu Asp Trp Leu Trp His			
675	680	685	
Ser Pro Tyr Ser Asn Gly Glu Leu Ala Asp Phe Ser Pro Gln Thr Glu			
690	695	700	
Gln Asp Ser Lys Ser Lys Tyr Pro Ile Thr Leu Glu Ser Thr Thr Lys			
705	710	715	720
Ile Arg Pro Arg Gln Leu Ser Gly Ala Cys Ser Val Pro Ser Leu Gln			
725	730	735	
Val Ser Asp Pro Leu Leu Gly Ser Val Gln Gln Arg Cys Ser Val Val			
740	745	750	
Val Ser Gln Pro His Lys Glu Asn Ser Gly Gln Ser Pro Leu Tyr Asn			
755	760	765	
Ser Leu Gly Arg Lys Ala Ile Ser Ala Lys Pro Gln Pro Tyr Ser Arg			
770	775	780	
Pro Gln Ser Ser Ser Ser Ile Leu Ile Asn Lys Ser Leu Asp Ser Ile			
785	790	795	800
Asn Tyr Pro Ser Glu Thr Glu Thr Lys Gln Leu Leu Ser Ser Gln Lys			
805	810	815	

Ser Pro Arg Gly Ala Ser Gln Gln Asp Leu Pro Ser Gly Leu Ala Asn
 820 825 830
 Ser Cys Gln Gln Asp Arg Gly Lys Arg Ser Asp Leu Thr Leu Gln Asp
 835 840 845
 Ser Gln Lys Val Leu Val Val Asn Arg Asn Leu Pro Leu Ser Ala Gln
 850 855 860
 Ile Ala Thr Gln Asn Tyr Phe Cys Asn Phe Lys Asp Pro Glu Gly Asp
 865 870 875 880
 Glu Asp Asp Tyr Val Glu Ile Lys Ser Glu Glu Asp Glu Val Arg Leu
 885 890 895
 Asp Leu Ser Pro Arg Arg Gly Arg Lys Ser Asp Pro Gln Thr Pro Asp
 900 905 910
 Pro Asp Cys Ser Asp Ser Ile Cys Ser His Ser Thr Pro Tyr Ser Leu
 915 920 925
 Lys Glu Pro Val Ser Gly Arg Leu Gly Leu Pro Pro Tyr Leu Thr Ala
 930 935 940
 Cys Lys Asp Ser Asp Lys Leu Asn Asp Tyr Leu Trp Arg Gly Pro Ser
 945 950 955 960
 Pro Asn Gln Gln Asn Ile Val Gln Ser Leu Arg Glu Lys Phe Gln Cys
 965 970 975
 Leu Ser Ser Ser Ser Phe Ala
 980

<210> 99
 <211> 46
 <212> PRT
 <213> Mus musculus

<400> 99
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 Ile Leu Lys Val Lys Ser Pro Glu Leu Glu Gln Pro Pro Ser Ser Gln
 20 25 30
 His Arg Pro Ser His Lys Asp Leu Ala Ala Ile Leu Glu Lys
 35 40 45

<210> 100
 <211> 412
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 <213> Mus musculus

<400> 100
 Met Ala Asn Val Ala Asp Thr Lys Leu Tyr Asp Ile Leu Gly Val Pro

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Pro	Gly	Ala	Ser
Glu	Asn	Glu	Leu
Lys	Lys	Ala	Tyr
Arg	Lys	Leu	Ala
20	25	30	
Lys	Glu	Tyr	His
Pro	Asp	Lys	Asn
Asn	Pro	Gly	Asp
Phe	Lys	Phe	Lys
35	40	45	
Glu	Ile	Ser	Phe
Ala	Tyr	Glu	Val
Leu	Ser	Asn	Pro
Glu	Lys	Gly	Glu
Arg	Asp	Gly	Lys
Gly	Tyr	Gly	Arg
65	70	75	80
Gly	Gly	Gly	Met
Met	Asp	Asp	Ile
Phe	Ser	His	Ile
Gly	Gly	Gly	Phe
Gly	Gly	Gly	Gly
Leu	85	90	95
Phe	Gly	Phe	Met
Met	Gly	Asn	Gln
Gly	Ser	Arg	Ser
Arg	Asn	Gly	Arg
Arg	Arg	Arg	Arg
100	105	110	
Gly	Glu	Asp	Met
Met	Met	His	Pro
Leu	Lys	Val	Ser
Leu	Glu	Asp	Leu
Tyr	115	120	125
Asn	Gly	Thr	Thr
Lys	Leu	Gln	Leu
Ser	Lys	Asn	Val
Val	Leu	Cys	Ser
130	135	140	
Ala	Cys	Ser	Gly
Gln	Gly	Gly	Lys
Ser	Gly	Ala	Val
Gly	Ala	Gln	Lys
Cys	Val	Cys	Ser
145	150	155	160
Ala	Cys	Arg	Gly
Gly	Arg	Gly	Val
Arg	Gly	Val	Arg
Ile	Met	Ile	Arg
165	170	175	
Gly	Met	Val	Gln
Gln	Met	Gln	Ser
Val	Cys	Ser	Asp
Cys	Asn	Gly	Glu
180	185	190	
Gly	Glu	Val	Ile
Ile	Asn	Glu	Lys
Gly	Asp	Arg	Cys
Cys	Lys	Cys	Glu
195	200	205	
Lys	Val	Ile	Lys
Glu	Val	Lys	Ile
Ile	Glu	Val	Leu
210	215	220	
Met	Lys	His	Gly
Gln	Arg	Ile	Thr
Arg	Ile	Thr	Phe
Gly	Glu	Ala	Asp
225	230	235	240
Pro	Gly	Val	Glu
Glu	Pro	Gly	Asp
Asp	Ile	Val	Leu
Leu	Leu	Leu	Gln
Gly	Gly	Glu	Glu
245	250	255	
His	Glu	Val	Phe
Gly	Gly	Gly	Gly
260	265	270	
Ile	Gly	Leu	Val
Glu	Ala	Leu	Cys
275	280	285	
Leu	Asp	Ala	Arg
Gln	Ile	Val	Val
Lys	Tyr	Pro	Pro
Gly	Gly	Lys	Val
290	295	300	
Glu	Pro	Gly	Cys
Cys	Val	Arg	Val
305	310	315	320
Arg	Asn	Pro	Phe
Gly	Gly	Gly	Asp
Asp	Leu	Tyr	Ile
Leu	Tyr	Lys	Phe
325	330	335	
Phe	Pro	Glu	Asn
Asn	Trp	Ile	Asn
340	345	350	
Pro	Asp	Lys	Leu
Lys	Leu	Ser	Glu
Leu	Glu		

Asp Leu Leu Pro Ser Arg Pro Glu Val Pro Asn Val Ile Gly Glu Thr
 355 360 365
 Glu Glu Val Glu Leu Gln Glu Phe Asp Ser Thr Arg Gly Ser Gly Gly
 370 375 380
 Gly Gln Arg Arg Glu Ala Tyr Asn Asp Ser Ser Asp Glu Glu Ser Ser
 385 390 395 400
 Ser His His Gly Pro Gly Val Gln Cys Ala His Gln
 405 410

<210> 101

<211> 25

<212> PRT

<213> Mus musculus

<400> 101

Leu Ser Asn Pro Glu Lys Arg Glu Leu Tyr Asp Arg Tyr Gly Glu Gln
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 Gly Leu Arg Glu Gly Ser Gly Gly
 20 25

<210> 102

<211> 29

<212> PRT

<213> Mus musculus

<400> 102

Ala His Ser Phe Ser Val Phe Arg Leu Pro Ser Trp Trp Ile Val Gly
 1 5 10 15
 Trp Trp Ser Lys Gly Gly Val Gly Ser Asp Leu Glu Met
 20 25

<210> 103

<211> 35

<212> PRT

<213> Mus musculus

<400> 103

Pro Asp Ile Lys His Pro Gly Asn Leu Glu His Tyr Ile Lys Arg Val
 1 5 10 15
 Asn Leu Arg Ile Ile Ala Ile Glu Glu Gly Glu Lys Ser Gln Leu Lys
 20 25 30
 Gly Pro Lys
 35

<210> 104

<211> 573

<212> DNA

<213> Mus musculus

<400> 104

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ctagcagaca	gactgaagca	tctagcagac	agactgaaac	atctaacaga	cagattgggg	180
catctaacag	acagatcatg	gcatctaaca	gacagattgg	ggcatctaac	agacagattg	240
aggcatctaa	cagacagatt	gggcatcta	acagacagac	agaggtatct	agcagacaga	300
ttgaggcatc	taacagacag	attggggcat	ctaacagaca	aactgaggca	tctaacagac	360
agattgggc	atctaacaga	cagactgagg	catctaacag	acagattggg	gcatctaaca	420
gacagactga	tgcataaac	agacagactg	atgcatacaa	cagacagact	gaggcatcta	480
gcagacagac	agaggcatct	agcagacaga	cagaggcatc	tagcagacag	actgaggcat	540
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<210> 105

<211> 213

<212> DNA

<213> Mus musculus

<400> 105

attgaggcat	ctaacagaca	attggggca	tctaacagac	aaactgaggc	atctaacaga	60
cagattggc	atctaacaga	cagactgagg	catctaacag	acagattggg	gcatctaaca	120
gacagactga	tgcataaac	agacagactg	atgcatacaa	cagacagact	gaggcatcta	180
gcagacagac	agaggcatct	agcagacaga	ctg			213

<210> 106

<211> 165

<212> DNA

<213> Mus musculus

<400> 106

gacaaaactga	ggcatctaac	agacagattg	ggcatctaa	cagacagact	gaggcatcta	60
acagacagat	tggggcatct	aacagacaga	ctgatgcate	taacagacag	actgatgcat	120
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<210> 107

<211> 135

<212> DNA

<213> Mus musculus

<400> 107
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acagacagac tcatgcattt aacagacaga ctgtatgcattc taacagacag actgaggcat 120
cttagcagtca gacag 135

<210> 108
<211> 135
<212> DNA
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cttagcagtca gacag 135

<210> 109
<211> 135
<212> DNA
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<400> 109
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acagacagac tcatgcattt aacagacaga ctgtatgcattc taacagatag actgaggcat 120
cttagcagtca gacag 135

<210> 110
<211> 135
<212> DNA
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<400> 110
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cttagcagtca gacag 135

<210> 111
<211> 135
<212> DNA
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acagacagac	tgatgcata	aacagacaga	ctgatgcata	taacagacag	actgaggcat	120
ctagcagtca	gacag					135
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acagacaggc	tgatgcata	aacagacaga	ctgatgcata	taacagacag	actgaggcat	120
ctagcagtca	gacag					135
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acagacagac	tgatgcata	aacagacaga	ctgatgcata	taacagacag	actgaggcat	120
ctagcagtca	gacag					135
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acagacagac	tgatgcata	aacagacaga	ctgacgcata	taacagacag	actgaggcat	120
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<210> 116

<211> 135

<212> DNA

<213> Mus musculus

<400> 116

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<210> 117

<211> 135

<212> DNA

<213> Mus musculus

<400> 117

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ctagcgtca gacag	135

<210> 118

<211> 114

<212> DNA

<213> Mus musculus

<400> 118

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gcagacagac tgaaggcatct agcagacaga ctgaaacatc taacaaacag aaag	114

<210> 119

<211> 552

<212> DNA

<213> Mus musculus

<400> 119

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ctagcagaca gactgaggca tctagcagac agactgaaac atctaacaga cagattgggg	180
catctaacag acagatcatg gcatctaaca gacagattgg ggcatctaacc agacagattg	240
aggcatctaa cagacagatt gggcatcta acagacagac agaggtatct agcagacaga	300
ttgaggcatc taacagacag attggggcat ctaacagaca gactgaggca tctaacagac	360
agattgggc atctaacaga cagactgagg catctaacag acagattgg gcatctaaca	420
gacagactga tgcatactaa acagacagactg aggcatctag cagacagaca gaggcatcta	480

gcagacagac agaggcatct agcagacaga ctgaggcatc tagcagacaa attgaggcat	540
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ctcatgctaa cgcagcagtt gcaaacgttt tgggaacaga ctgtcaggc tgaggggcaa	180
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<210> 121	
<211> 228	
<212> DNA	
<213> Mus musculus	
<400> 121	
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aggaagctgg agcggatcgc tcggcttagag gaaaaagtga aaacacctgaa agcgcaaaac	120
tccgagctgg catccacggc caacatgctc agggAACAGG tggcacagct taagcagaaa	180
gtcatgaacc acgttaacag tgggtgccaa ctcatgctaa cacagcag	228
<210> 122	
<211> 149	
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agactgaaac atctaacaga cagatatgg	149
<210> 123	
<211> 168	
<212> DNA	
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aggcatctaa cagacagatt gaggcatcta acagacagac tcatgcattt aacagacaga	120

ctggggcatc tagcagacag acagaggcat ctagcagaca gacagaga	168
<210> 124	
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ctagcagaca gactgaggca tctaacagac agactgaggc atttagcaga cagactgagg	120
catctagcag ac	132
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ctagcagaca gactgagaca tctaacagac agactgaggc atttagcaga cagactgagg	120
catctagcag ac	132
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<212> DNA	
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ctaacagaca gactgaggca c	81
<210> 127	
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ctaacagaca gactgaggca tctaacagac agattgggc atctaacaga cagactgtg	120
catctaacag acagactgag gcatctagca gacagaccg	159
<210> 128	
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<212> DNA

<213> Mus musculus

<400> 128

agacagaggc atctaacaga cagactgagg catctaacag acagattggg gcatctaaca	60
gacagactga ggcataaac agacagattg gggcatctaa cagacagact gatgcata	120
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<210> 129

<211> 117

<212> DNA

<213> Mus musculus

<400> 129

gacagattga ggcatacg agacagactg aggcatctaa cagacagact gaggcatcta	60
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<210> 130

<211> 117

<212> DNA

<213> Mus musculus

<400> 130

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<211> 117

<212> DNA

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<211> 129

<212> DNA

<213> Mus musculus

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ttggggcaa	129
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tccgagctgg catccacggc caacatgctc agggAACAGG tggcacagct taaggcagaaa	180
gtcatgaacc acgttaacacag tgggtgccaa ctcatgctaa cacagcag	228
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gacagacaga aa	132
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<210> 140
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<400> 140
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<210> 141
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 <212> DNA
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gaagtggaaa	cactgagcat	tcaagtgacc	tctctgtt	aggagcttca	agaggcacac	960
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aacaagaagt	tagagctgca	ggtggagagc	atgcgctccg	aatcaagat	ggagcaggcc	1140
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caagaacata	ataaggcact	gaaaacaatt	gaagaactaa	ccaagcaaca	ggcagaaaaag	1260
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<211> 324

<212> DNA

<213> Mus musculus

<400> 142

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<213> Mus musculus

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<211> 3093

<212> DNA

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<210> 153

<211> 168

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<213> Mus musculus

<400> 153

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<211> 150

<212> DNA

<213> Mus musculus

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